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SOIL SURVEY INTERPRETATIONS FOR WOODLANDS

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IN THE

SOUTHERN COASTAL PLAIN AND ASSOCIATED AREAS

OF

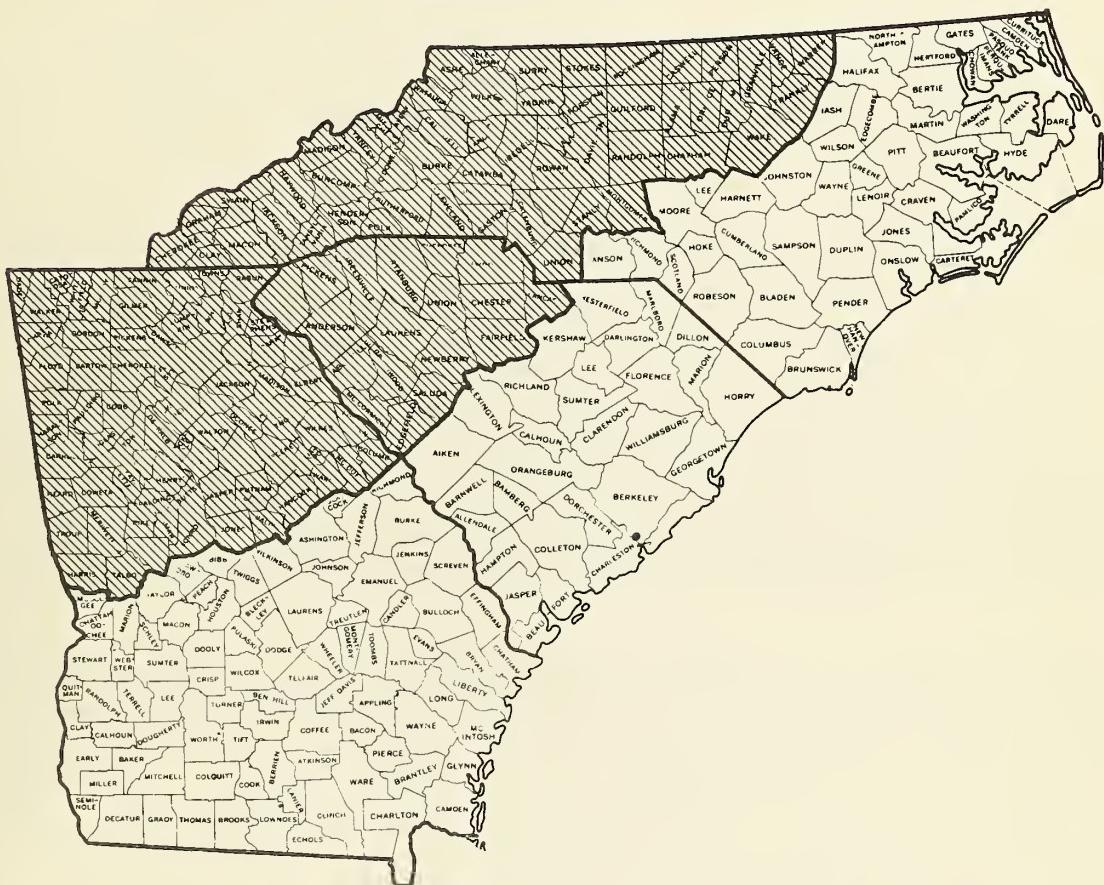
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GEORGIA, NORTH CAROLINA AND SOUTH CAROLINA

With Average Rainfall of 30- to 40-Inches

During the Frost-free Period



PROGRESS REPORT W-16 -- January 1970

UNITED STATES DEPARTMENT OF AGRICULTURE  
Soil Conservation Service  
Fort Worth, Texas



This report contains interpretations of soil surveys for woodland use and management in the Southern Coastal Plain and associated areas of Georgia, North Carolina, and South Carolina, with mean precipitation of 30 to 40 inches during the frost-free period. The purpose is to provide currently available knowledge about soils as they relate to the establishment, growth, management, and harvesting of wood crops for the use of foresters, agricultural workers, woodland owners, and woodland managers. The information will be used by the Soil Conservation Service and cooperating agencies in the development of technical guides, soil handbooks, and published soil survey reports.

Field information was gathered by teams of foresters and soil scientists. Representatives of Federal and State agencies, the woodusing industry, and others cooperated in gathering field data. Much of the information concerning the productivity and soil suitability of southern hardwoods was compiled by Walter M. Broadfoot of the U.S. Forest Service, Southern Forest Experiment Station. The interpretations presented herein are made for use with soil surveys.

Table 2, SOIL RATINGS FOR WOODLAND USE, includes some evaluations for individual soils. The soil series listed in column one (1) are those defined according to the current soil classification system. Erosion and texture phases, within a soil series, are not shown except where differences in productivity, species suitability, or management problems exist.

Column two (2) includes a list of some of the commercially-important tree species which are adapted to the soil in column one. These are the tree species which woodland managers generally favor intermediate or improvement cuttings, after considering the form and vigor of individual trees. Priority

between species will be influenced by local marketability and the owners' objectives, as well as the quality of wood products from a given species.

Column three (3) indicates the average site index for the most important species listed in column two. The standard deviation is shown as a plus or minus figure (+) for each species where five or more plots were taken. The site index curves used for each species are shown in Table 1, GUIDE FOR WOODLAND SUITABILITY CLASSES. Site index is the average height of dominant trees at age 30 for cottonwood, age 35 for sycamore, and age 50 for all other species.

Column four (4) indicates the range of site index of the most important tree species in column two. The range of site index values is dependent on soil physical conditions, aeration, and nutrient and moisture availability during the growing season.

Column five (5) evaluates the potential erosion hazard of the soil in woodland use following cutting operations, or where the soil is exposed along roads, trails, firebreaks, or log-yarding areas. A rating of slight indicates that problems of erosion control are unimportant. A rating of moderate indicates some attention must be given to prevent unnecessary soil erosion. A rating of severe indicates that intensive treatments, or special equipment and methods of operation should be planned to minimize soil erosion. The potential erosion hazard is based on slope, soil depth and erodibility, and soil loss tolerance.

Column six (6) includes an evaluation of equipment restrictions. Ratings reflect limitations in the use of equipment for managing or harvesting the tree crop. A rating of slight indicates equipment use is seldom limited in kind or time of year. A rating of moderate indicates a need for modified equipment or seasonal restrictions due to slope, stones, obstructions, soil wetness, flooding, or overflows. A rating of severe indicates the need for specialized

equipment due to one or more of the factors listed above.

Column seven (7) indicates the degree of expected seedling mortality during the first two growing seasons after planting or seeding. Normal rainfall, adequate site preparation, good planting stock, proper planting methods, and appropriate protection and cultivation are assumed. A rating of slight indicates that unsatisfactory survival on less than 25 percent of the area is likely. A rating of moderate indicates that unsatisfactory survival is likely on 25 to 50 percent of the area planted. A rating of severe indicates that unsatisfactory survival is likely on more than 50 percent of the area.

Column eight (8) lists several suitable tree species for planting on the soil named in column one. The list may include some species which do not normally occur in native stands on the designated soil or in this physiographic area, as well as some of the important species listed in column two.

Column nine (9) shows the ordination of the soils into a woodland suitability group. A woodland suitability group is made up of kinds of soils that are capable of producing similar kinds of wood crops, that need similar management to produce these crops, and that have about the same potential productivity. The ordination system and the suitability group symbols are explained in the following paragraphs.

The first element of the group symbol indicates the woodland suitability class. It expresses site quality by an arabic numeral ranging from 1 to 5, with class 1 the highest in potential productivity, followed by class 2, 3, 4, and 5. It is based on the average site index of one or more indicator forest types or tree species, as shown in Table 1, GUIDE FOR WOODLAND SUITABILITY CLASSES. The indicator species are underscored in column two of Table 2.

The second element in the symbol indicates the suitability subclass. It expresses selected soil properties that cause moderate to severe hazards or

limitations in woodland use or management, by one of the following lower case arabic letters:

Subclass w (excessive wetness). Soils in which excessive water, either seasonally or year long, causes significant limitations for woodland use or management. These soils have restricted drainage, high water tables, or overflow hazards which adversely affect either stand development or management.

Subclass c (clayey soils). Soils having restrictions or limitations for woodland use or management due to the kind or amount of clay in the upper portion of the soil profile.

Subclass s (sandy soils). Sandy soils with little or not textural B horizons and having moderate to severe restrictions or limitations for woodland use or management. These soils impose equipment limitations, have low moisture-holding capacity, and normally are low in available plant nutrients.

Subclass o (slight or no limitations). Soils with no significant restrictions or limitations for woodland use or management.

Some kinds of soil may have more than one set of subclass characteristics.

Priority in placing each kind of soil into a subclass is in the order that the subclass characteristics are listed above.

The third element in the symbol indicates the degree of hazards or limitations and the general suitability of the soils for certain kinds of trees. The three management problems considered here are: (1) erosion hazard, (2) equipment restrictions, and (3) seedling mortality.

The numeral 1 indicates soils with no to slight management problems, and they are best suited for needleleaf trees.

The numeral 2 indicates soils with one or more moderate management problems,

and they are best suited for needleleaf trees.

The numeral 3 indicates soils with one or more severe management problems, and they are best suited for needleleaf trees.

The numeral 4 indicates soils with no to slight management problems, and they are best for broadleaf trees.

The numeral 5 indicates soils with one or more moderate management problems, and they are best suited for broadleaf trees.

The numeral 6 indicates soils with one or more severe management problems, and they are best suited for broadleaf trees.

The numeral 7 indicates soils with no to slight management problems, and they are suitable for either needleleaf or broadleaf trees.

The numeral 8 indicates soils with one or more moderate management problems, and they are suitable for either needleleaf or broadleaf trees.

The numeral 9 indicates soils with one or more severe management problems, and they are suitable for either needleleaf or broadleaf trees.

TABLE 1 - GUIDE FOR WOODLAND SUITABILITY CLASSES  
SOUTHERN COASTAL PLAIN

| Indicator Forest<br>Type or Species | :   | 1<br>Very High | : | 2<br>High | : | 3<br>Moderately High | : | 4<br>Moderate | : | 5<br>Low |
|-------------------------------------|-----|----------------|---|-----------|---|----------------------|---|---------------|---|----------|
| Site Index                          |     |                |   |           |   |                      |   |               |   |          |
| Cottonwood                          | :   | 106+           | : | 96-105    | : | 86-95                | : | 76-85         | : | 75-      |
| Yellow-poplar                       | (2) | 106+           | : | 96-105    | : | 86-95                | : | 76-85         | : | 75-      |
| Sweetgum                            | (3) | 96+            | : | 86-95     | : | 76-85                | : | 66-75         | : | 65-      |
| Water oak                           | (4) | 96+            | : | 86-95     | : | 76-85                | : | 66-75         | : | 65-      |
| Loblolly pine                       | (5) | 96+            | : | 86-95     | : | 76-85                | : | 66-75         | : | 65-      |
| Slash pine                          | (6) | 96+            | : | 86-95     | : | 76-85                | : | 66-75         | : | 65-      |
| Longleaf pine                       | (6) | 86+            | : | 76-85     | : | 66-75                | : | 56-65         | : | 55-      |
| Sou.-red oak                        | (7) | 86+            | : | 76-85     | : | 66-75                | : | 56-65         | : | 55-      |
| Water tupelo                        | (8) | 86+            | : | 76-85     | : | 66-75                | : | 56-65         | : | 55-      |
| Redcedar                            | (9) | 66+            | : | 56-65     | : | 46-55                | : | 35-45         | : | 35-      |
|                                     | :   | :              | : | :         | : | :                    | : | :             | : |          |

- (1) Broadfoot, W. M., 1960, Field Guide for Evaluating Cottonwood Sites, USFS Occ., Paper 178 (Fig. 4).
- (2) Doolittle, W. T., 1957, Site Index Curves for Yellow-poplar So. Appalachians.
- (3) Broadfoot, W. M., 1959, Guide for Evaluating Sweetgum Sites, USFS Occ., Paper 176 (Fig. 4).
- (4) Broadfoot, W. M., 1963, Guide for Evaluating Water Oak Sites in the Mid-south, USFS Res. Paper SO-1 (Fig. 4).
- (5) Coile, T. S. and F. X. Schumacher, Jour. For. 53: 432-453 (Fig. 4).
- (6) U. S. Forest Service, 1929 Volume, Yield, and Stand Tables for Second Growth Southern Pines, USDA Misc. Publ. 50 (Fig. 2, 3, 4).
- (7) Olson, D. G., 1959, Site Curves for Upland Oaks in the Southern Appalachians, S. E. Forest Experiment Station Research Note 125.
- (8) Applequist, M. D., 1959, Soil-Site Studies, Sou. Hardwoods (Fig. 7).
- (9) TVA 1943, Site Curves, E. Redcedar, Tennessee Valley.

TABLE 2. SOIL RATINGS FOR WOODLAND USE  
Southern Coastal Plain and Associated Areas of Georgia, North Carolina and South Carolina

| Soils                           | Potential Productivity   |                                      |  | Management Problems |                        |                        | Species Suitable for Planting   | Ordination Woodland Suitability Group |
|---------------------------------|--|--------------------------------------|--|---------------------|------------------------|------------------------|---|---------------------------------------|
|                                 | Tree Species   | Avg. Site Index & Standard Deviation | Range of Site Index                            | Erosion Hazard      | Equipment Restriction  | Seedling Mortality     |   |                                       |
| (1)                             | (2)  | (3)                                  | (4)  | (5)                 | (6)                    | (7)                    | (8)   | (9)                                   |
| <u>Alaga</u><br>1-25% slopes    | <u>Loblolly pine</u><br>Slash pine<br>Longleaf pine  | 81+6<br>80<br>65+5                   | 72-88<br>73-87<br>60-71                        | Slight              | Slight to Moderate     | Moderate               | Slash pine<br>Longleaf pine   | 3s2                                   |
| <u>Alapaha</u><br>0-5% slopes   | <u>Slash pine</u><br>Loblolly pine<br>Longleaf pine  | 87<br>87<br>70                       | 78-93<br>78-93<br>60-75                        | Slight              | Moderate               | Slight to Moderate     | Slash pine<br>Loblolly pine   | 2w2                                   |
| <u>Albany</u><br>0-5% slopes    | <u>Slash pine</u><br>Loblolly pine<br>Longleaf pine  | 80<br>80<br>67                       | 72-88<br>72-88<br>60-75                        | Slight              | Moderate               | Moderate               | Slash pine<br>Loblolly pine   | 3w2                                   |
| <u>Americus</u><br>1-25% slopes | <u>Slash pine</u><br>Loblolly pine<br>Longleaf pine  | 84<br>84<br>70                       | 78-89<br>78-89<br>66-75                        | Slight              | Moderate               | Moderate               | Slash pine<br>Longleaf pine   | 3s2                                   |
| <u>Amite</u><br>0-5% slopes     | <u>Loblolly pine</u><br><u>Sweetgum</u><br>Slash pine<br>Red oaks<br>White oaks                              | 94<br>93<br>94<br>-<br>-             | 90-100<br>85-100<br>90-100<br>-<br>-           | Slight              | Slight                 | Slight                 | Slash pine<br>Yellow-poplar<br>Loblolly pine                                    | 2o7                                   |
| <u>Amy</u><br>0-2% slopes       | <u>Sweetgum</u> 1/<br>Loblolly pine 1/<br>Water oaks<br>Green ash<br>Red oaks<br>Tupelos                     | 90<br>90<br>90<br>-<br>-<br>-        | 84-96<br>84-96<br>-<br>-<br>-<br>-             | Slight              | Severe 2/<br>Severe 2/ | Severe 2/<br>Severe 2/ | Loblolly pine 3/<br>Slash pine 3/<br>Sweetgum 3/<br>Sycamore 3/<br>Water tupelo | 2w9                                   |
| <u>Angie</u><br>0-5% slopes     | <u>Loblolly pine</u><br><u>Sweetgum</u><br>Blackgum<br>Water oaks<br>Red oaks                                | 90<br>90<br>-<br>90<br>-             | 85-96<br>83-96<br>-<br>-<br>-                  | Slight              | Moderate               | Moderate               | Loblolly pine<br>Slash pine<br>Sycamore<br>Yellow-poplar<br>Sweetgum            | 2w8                                   |
| <u>Ardilla</u><br>0-5% slopes   | <u>Slash pine</u><br>Sweetgum<br>Blackgum<br>Water oaks<br>Longleaf pine                                     | 89+4<br>90<br>-<br>90<br>78          | 83-93<br>-<br>-<br>-<br>73-84                  | Slight              | Moderate               | Slight                 | Loblolly pine<br>Slash pine<br>Sycamore<br>Sweetgum                             | 2w8                                   |
| <u>Atmore</u><br>0-2% slopes    | <u>Slash pine</u> 1/<br>Loblolly pine 1/<br>Longleaf pine 1/<br><u>Sweetgum</u> 1/<br>Water oak<br>Green ash | 85<br>85<br>73+4<br>85<br>85<br>-    | 75-90<br>77-92<br>67-78<br>80-90<br>80-90<br>- | Slight              | Severe 2/<br>Severe 2/ | Severe 2/<br>Severe 2/ | Loblolly pine<br>Slash pine<br>Sweetgum<br>Sycamore<br>Nuttall oak              | 3w9                                   |
| <u>Augusta</u><br>0-5% slopes   | <u>Loblolly pine</u><br>Sweetgum<br>Sycamore<br>White oaks<br>Red oaks                                       | 92<br>90<br>90<br>-<br>-             | -<br>-<br>-<br>-<br>-                          | Slight              | Moderate               | Slight                 | Loblolly pine<br>Slash pine<br>Sycamore<br>Yellow-poplar<br>Cherrybark oak      | 2w8                                   |

1/ Potential productivity attainable only on areas with adequate surface drainage.

2/ Equipment restrictions and seedling mortality are moderate on areas with adequate surface drainage.

3/ Tree plantings is feasible only on areas with adequate surface drainage.

TABLE 2. SOIL RATINGS FOR WOODLAND USE  
 Southern Coastal Plain and Associated Areas of Georgia, North Carolina and South Carolina

| Soils                   | Potential Productivity   |  |   | Management Problems |                        |                        | Species Suitable for Planting   | Ordination Woodland Suitability Group |
|-------------------------|--|--|---|---------------------|------------------------|------------------------|---|---------------------------------------|
|                         | Tree Species   | Avg. Site Index & Standard Deviation                           | Range of Site Index   | Erosion Hazard      | Equipment Restriction  | Seedling Mortality     |   |                                       |
| (1)                     | (2)  | (3)  | (4)   | (5)                 | (6)                    | (7)                    | (8)   | (9)                                   |
| Aycock<br>0-10% slopes  | Slash pine<br>Loblolly pine<br>Longleaf pine<br>Southern red oak   | 89<br>89<br>75<br>80   | 84-94<br>85-94<br>70-80<br>-  | Slight              | Slight                 | Slight                 | Slash pine<br>Loblolly pine   | 2o1                                   |
| Barclay<br>0-2% slopes  | Loblolly pine<br>Sweetgum<br>Slash pine<br>Yellow-poplar<br>Red oaks<br>White oaks   | 86+5<br>90<br>85<br>90<br>-<br>-                               | 78-94<br>86-95<br>-<br>-<br>-<br>-  | Slight              | Moderate               | Moderate               | Loblolly pine<br>Sycamore<br>Yellow-poplar<br>Slash pine<br>Cherrybark oak      | 2w8                                   |
| Barth<br>0-5% slopes    | Slash pine<br>Loblolly pine<br>Longleaf pine   | 83<br>83<br>75   | 75-90<br>75-90<br>70-80   | Slight              | Moderate               | Moderate               | Slash pine<br>Loblolly pine   | 3w2                                   |
| Bayboro<br>0-2% slopes  | Loblolly pine 1/<br>Sweetgum 1/<br>Slash pine 1/<br>Tupelos<br>Red oaks<br>White oaks  | 95+5<br>94+3<br>95<br>-<br>-<br>-                              | 87-103<br>80-100<br>87-103<br>-<br>-<br>-                                 | Slight              | Severe 2/<br>Severe 2/ | Severe 2/<br>Severe 2/ | Slash pine 3/<br>Loblolly pine 3/<br>Sweetgum 3/<br>Sycamore 3/<br>Water tupelo | 2w9                                   |
| Bibb<br>0-2% slopes     | Sweetgum 1/<br>Loblolly pine 1/<br>Slash pine 1/<br>Water oak 1/<br>Green ash 1/<br>Cottonwood 1/<br>Sycamore<br>Tupelos<br>Red oaks<br>White oaks | 90+9<br>92+6<br>90<br>90+10<br>86+2<br>100<br>-<br>-<br>-<br>- | 78-97<br>84-100<br>82-98<br>78-100<br>64-98<br>80-110<br>-<br>-<br>-<br>- | Slight              | Severe 2/<br>Severe 2/ | Severe 2/<br>Severe 2/ | Loblolly pine 3/<br>Sycamore 3/<br>Cottonwood 3/<br>Nuttall oak                 | 2w9                                   |
| Bladen<br>0-2% slopes   | Loblolly pine<br>Slash pine<br>Sweetgum<br>Tupelos<br>Red oaks<br>White oaks   | 94+3<br>91<br>90<br>-<br>-<br>-                                | 86-102<br>85-100<br>80-100<br>-<br>-<br>-                                 | Slight              | Severe 2/<br>Severe 2/ | Severe 2/<br>Severe 2/ | Loblolly pine 3/<br>Slash pine 3/<br>Sycamore 3/<br>Water oak<br>Nuttall oak    | 2w9                                   |
| Blaney<br>1-15% slopes  | Loblolly pine<br>Slash pine<br>Longleaf pine   | 73+5<br>75<br>61+6   | 67-79<br>66-75<br>56-68   | Slight              | Moderate               | Moderate               | Slash pine<br>Longleaf pine   | 4s2                                   |
| Blanton<br>1-10% slopes | Slash pine<br>Longleaf pine<br>Loblolly pine   | 80<br>70+4<br>80   | 76-85<br>66-75<br>76-85   | Slight              | Moderate               | Moderate               | Slash pine<br>Longleaf pine   | 3s2                                   |
| Boswell<br>1-15% slopes | Loblolly pine<br>Slash pine<br>Longleaf pine   | 85+4<br>84<br>65+3   | 76-90<br>80-90<br>60-70   | Slight              | Moderate               | Moderate               | Loblolly pine   | 3c2                                   |
| Bowie<br>0-10% slopes   | Loblolly pine<br>Slash pine<br>Longleaf pine   | 86<br>85<br>72+5   | 80-92<br>80-92<br>63-76   | Slight              | Slight                 | Slight                 | Loblolly pine<br>Slash pine   | 2o1                                   |

TABLE 2. SOIL RATINGS FOR WOODLAND USE  
Southern Coastal Plain and Associated Areas of Georgia, North Carolina and South Carolina

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| Soils  | Potential Productivity  |  |  | Management Problems |                        |                        | Species Suitable for Planting   | Ordination Woodland Suitability Group |
|--|---|--|--|---------------------|------------------------|------------------------|---|---------------------------------------|
|  | Tree Species  | Avg. Site Index & Standard Deviation                 | Range of Site Index  | Erosion Hazard      | Equipment Restriction  | Seedling Mortality     |   |                                       |
| (1)  | (2)   | (3)  | (4)  | (5)                 | (6)                    | (7)                    | (8)   | (9)                                   |
| <u>Brogdon</u><br>0-5% slopes                          | <u>Loblolly pine</u><br>Slash pine<br>Red oaks  | 86<br>85<br>-  | 80-92<br>80-92<br>-  | Slight              | Slight                 | Slight                 | Slash pine<br>Loblolly pine   | 2o1                                   |
| <u>Buncombe</u><br>0-5% slopes                         | <u>Loblolly pine</u><br>Slash pine<br>Water oak<br>Sweetgum<br>Cottonwood<br>Sycamore<br>Red oaks<br>White oaks             | 95<br>95<br>105<br>113<br>-<br>-<br>-<br>-<br>-      | 90-100<br>90-100<br>95-110<br>105-115<br>-<br>-<br>-<br>-<br>- | Slight              | Moderate               | Moderate               | Sycamore<br>Slash pine<br>Cottonwood  | 2s8                                   |
| <u>Byars</u><br>0-2% slopes                            | <u>Sweetgum</u> 1/<br><u>Loblolly pine</u> 1/<br>Slash pine 1/<br>Tupelos<br>Cypress<br>Water oaks<br>White oaks            | 90<br>95<br>92<br>-<br>-<br>90<br>-                  | 86-100<br>87-103<br>85-100<br>-<br>-<br>-<br>-                 | Slight              | Severe 2/<br>Severe 2/ | Severe 2/<br>Severe 2/ | Loblolly pine 3/<br>Slash pine 3/<br>Sycamore 3/<br>Water tupelo                | 2w9                                   |
| <u>Cahaba</u> (lower slopes and terraces) 0-10% slopes | <u>Loblolly pine</u><br>Slash pine<br>Sweetgum<br>Yellow-poplar<br>Red oaks<br>White oaks                                   | 91+4<br>90<br>90<br>-<br>-<br>-                      | 85-96<br>85-95<br>80-100<br>-<br>-<br>-                        | Slight              | Slight                 | Slight                 | Slash pine<br>Loblolly pine<br>Yellow-poplar<br>Sycamore<br>Cherrybark oak      | 2o7                                   |
| upper slopes,<br>5-25% slopes                          | <u>Loblolly pine</u><br>Slash pine<br>Longleaf pine   | 86<br>86<br>72+5                                     | 80-90<br>80-90<br>67-78  | Slight              | Slight                 | Slight                 | Slash pine<br>Loblolly pine<br>Longleaf pine                                    | 2o1                                   |
| <u>Cape Fear</u><br>0-2% slopes                        | <u>Sweetgum</u> 1/<br><u>Loblolly pine</u> 1/<br>Tupelos<br>Cypress<br>Water oak 1/   | 90<br>90<br>-<br>-<br>90                             | 85-96<br>85-96<br>-<br>-<br>85-95                              | Slight              | Severe 2/<br>Severe 2/ | Severe 2/<br>Severe 2/ | Loblolly pine 3/<br>Slash pine 3/<br>Sweetgum 3/<br>Sycamore 3/<br>Water tupelo | 2w9                                   |
| <u>Carnegie</u><br>0-10% slopes                        | <u>Loblolly pine</u><br>Slash pine<br>Longleaf pine   | 86<br>86<br>70                                       | 80-92<br>80-92<br>64-75  | Slight              | Slight                 | Slight                 | Loblolly pine<br>Slash pine   | 2o1                                   |
| <u>Charleston</u><br>0-5% slopes                       | <u>Loblolly pine</u>  | 76   | 70-82  | Slight              | Slight                 | Slight                 | Slash pine<br>Loblolly pine   | 3o1                                   |
| <u>Chastain</u><br>0-2% slopes                         | <u>Sweetgum</u><br><u>Water oak</u><br>Cottonwood<br>Green ash<br><u>Loblolly pine</u><br>Tupelos<br>Red oaks<br>White oaks | 94+11<br>89+13<br>90<br>88+10<br>90+3<br>-<br>-<br>- | 82-101<br>77-96<br>70-100<br>66-93<br>82-98<br>-<br>-<br>-     | Slight              | Severe 2/<br>Severe 2/ | Severe 2/<br>Severe 2/ | Sycamore 3/<br>Sweetgum 3/<br>Loblolly pine 3/<br>Cherrybark oak                | 2w9                                   |
| <u>Chipley</u><br>0-5% slopes                          | <u>Slash pine</u><br><u>Loblolly pine</u><br>Longleaf pine  | 88+6<br>89+8<br>74+4                                 | 80-94<br>80-96<br>69-79  | Slight              | Moderate               | Moderate               | Slash pine<br>Loblolly pine   | 2w2                                   |

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 Southern Coastal Plain and Associated Areas of Georgia, North Carolina and South Carolina

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| Soils                    | Potential Productivity  |  |  | Management Problems |                        |                        | Species Suitable for Planting  | Ordination Woodland Suitability Group |
|--------------------------|---|--|--|---------------------|------------------------|------------------------|--|---------------------------------------|
|                          | Tree Species  | Avg. Site Index & Standard Deviation       | Range of Site Index                              | Erosion Hazard      | Equipment Restriction  | Seedling Mortality     |  |                                       |
| (1)                      | (2)   | (3)  | (4)  | (5)                 | (6)                    | (7)                    | (8)  | (9)                                   |
| Cowarts<br>2-10% slopes  | Slash pine<br>Loblolly pine<br>Longleaf pine  | 86<br>86<br>67                             | 80-92<br>80-92<br>62-73                          | Slight              | Slight                 | Slight                 | Slash pine<br>Loblolly pine  | 2ol                                   |
| Coxville<br>0-2% slopes  | Loblolly pine 1/<br>Slash pine 1/<br>Longleaf pine 1/<br>Sweetgum 1/<br>Water oaks<br>Tupelos                   | 90+4<br>90<br>71+6<br>90<br>90<br>-        | 82-98<br>80-95<br>64-77<br>84-98<br>-<br>-       | Slight              | Severe 2/<br>Severe 2/ | Severe 2/<br>Severe 2/ | Sycamore 3/<br>Slash pine 3/<br>Loblolly pine 3/<br>Sweetgum         | 2w9                                   |
| Craven<br>0-15% slopes   | Loblolly pine<br>Longleaf pine<br>Water oak   | 81+4<br>67+2<br>80                         | 76-86<br>62-73<br>-                              | Slight              | Moderate               | Slight                 | Loblolly pine<br>Slash pine  | 3w2                                   |
| Cuthbert<br>2-15% slopes | Loblolly pine<br>Slash pine<br>Longleaf pine  | 80<br>80<br>66                             | 73-85<br>75-85<br>60-72                          | Slight to Moderate  | Slight to Moderate     | Slight to Moderate     | Loblolly pine  | 3c2                                   |
| Dawho<br>0-2% slopes     | Loblolly pine 1/<br>Sweetgum 1/<br>Water oak<br>Tupelos<br>Cypress<br>Slash pine 1/                             | 86<br>90<br>90<br>-<br>-<br>86             | 78-93<br>-<br>-<br>-<br>-<br>78-93               | Slight              | Severe 2/<br>Severe 2/ | Severe 2/<br>Severe 2/ | Loblolly pine 3/<br>Slash pine 3/<br>Sweetgum 3/<br>Water tupelo     | 2w9                                   |
| Darovan<br>0-2% slopes   | Slash pine 1/<br>Loblolly pine 1/<br>Magnolias<br>Tupelos   | 70<br>70<br>-<br>-                         | -<br>-<br>-<br>-                                 | Slight              | Severe 2/<br>Severe 2/ | Severe 2/<br>Severe 2/ | Loblolly pine 3/<br>Slash pine 3/                                    | 4w3                                   |
| Dothan<br>2-10% slopes   | Slash pine<br>Loblolly pine<br>Longleaf pine  | 89+5<br>88+5<br>67                         | 86-97<br>85-94<br>63-73                          | Slight              | Slight                 | Slight                 | Slash pine<br>Loblolly pine  | 2ol                                   |
| Dragston<br>0-5% slopes  | Loblolly pine<br>Slash pine<br>Longleaf pine<br>Sweetgum<br>Yellow-poplar                                       | 90<br>90<br>75<br>90<br>100                | 85-96<br>85-97<br>70-80<br>85-97<br>93-105       | Slight              | Moderate               | Slight                 | Loblolly pine<br>Slash pine<br>Sweetgum                              | 2w8                                   |
| Dunbar<br>0-5% slopes    | Loblolly pine<br>Slash pine<br>Longleaf pine<br>Water oaks<br>Red oaks<br>Blackgum<br>Yellow-poplar<br>Sweetgum | 90<br>88+5<br>70<br>-<br>-<br>-<br>-<br>90 | 80-96<br>80-96<br>63-73<br>-<br>-<br>-<br>-<br>- | Slight              | Moderate               | Moderate               | Slash pine<br>Loblolly pine<br>Sweetgum<br>Yellow-poplar             | 2w8                                   |
| Duplin<br>0-5% slopes    | Loblolly pine<br>Slash pine<br>Sweetgum<br>Blackgum<br>Red oaks<br>Yellow-poplar                                | 90<br>90<br>90<br>-<br>-<br>100            | 82-96<br>83-96<br>85-100<br>-<br>-<br>-          | Slight              | Moderate               | Moderate               | Slash pine<br>Loblolly pine<br>Sycamore<br>Sweetgum<br>Yellow-poplar | 2w8                                   |

TABLE 2. SOIL RATINGS FOR WOODLAND USE

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Southern Coastal Plain and Associated Areas of Georgia, North Carolina and South Carolina

| Soils   | Potential Productivity  |   |  | Management Problems |                       |                    | Species Suitable for Planting  | Ordination Woodland Suitability Group |
|---|---|---|--|---------------------|-----------------------|--------------------|--|---------------------------------------|
|   | Tree Species  | Avg. Site Index & Standard Deviation    | Range of Site Index                                  | Erosion Hazard      | Equipment Restriction | Seedling Mortality |  |                                       |
| (1)   | (2)   | (3)                                     | (4)  | (5)                 | (6)                   | (7)                | (8)  | (9)                                   |
| <u>Edisto</u><br>0-2% slopes                          | Loblolly pine<br>Slash pine<br>Sweetgum<br>Green ash<br>Red oaks<br>White oaks<br>Yellow-poplar | 98+6<br>96<br>100<br>-<br>-<br>-<br>110 | 89-105<br>85-101<br>92-105<br>-<br>-<br>-<br>100-118 | Slight              | Moderate              | Moderate           | Slash pine<br>Loblolly pine<br>Sycamore<br>Yellow-poplar             | 1w8                                   |
| <u>Esto</u><br>2-15% slopes                           | Loblolly pine<br>Slash pine<br>Longleaf pine  | 82+6<br>80<br>66                        | 76-88<br>75-86<br>61-74                              | Slight              | Slight                | Slight             | Slash pine<br>Loblolly pine  | 3o1                                   |
| <u>Eustis</u><br>2-25% slopes                         | Slash pine<br>Loblolly pine<br>Longleaf pine  | 82<br>84+4<br>65                        | 78-88<br>78-89<br>60-70                              | Slight              | Moderate              | Moderate           | Slash pine<br>Longleaf pine  | 3s2                                   |
| <u>Exum</u><br>0-5% slopes                            | Loblolly pine<br>Longleaf pine<br>Sweetgum<br>Yellow-poplar<br>Red oaks<br>White oaks           | 90<br>77<br>90<br>100<br>-<br>-         | 86-95<br>70-84<br>85-95<br>95-106<br>-<br>-          | Slight              | Moderate              | Slight             | Slash pine<br>Loblolly pine<br>Sycamore<br>Yellow-poplar<br>Sweetgum | 2w8                                   |
| <u>Faceville</u><br>(loamy sand to sand) 2-25% slopes | Loblolly pine<br>Slash pine<br>Longleaf pine  | 82<br>80<br>65                          | 76-87<br>76-85<br>60-70                              | Slight              | Slight                | Slight             | Slash pine<br>Loblolly pine  | 3o1                                   |
| sandy clay to clay, 5-25% slopes, eroded              | Loblolly pine<br>Longleaf pine  | 76<br>58                                | 71-82<br>54-64                                       | Moderate            | Moderate              | Moderate           | Loblolly pine  | 3c2                                   |
| <u>Fairhope</u><br>0-5% slopes                        | Loblolly pine<br>Slash pine<br>Sweetgum<br>Red oaks<br>White oaks                               | 87+3<br>89<br>90<br>-<br>-              | 80-96<br>80-96<br>32-100<br>-<br>-                   | Slight              | Moderate              | Moderate           | Loblolly pine<br>Slash pine<br>Sycamore<br>Yellow-poplar             | 2w8                                   |
| <u>Fuquay</u><br>2-25% slopes                         | Loblolly pine<br>Slash pine<br>Longleaf pine  | 83+5<br>83<br>67+4                      | 76-89<br>76-89<br>62-72                              | Slight              | Moderate              | Moderate           | Slash pine<br>Longleaf pine  | 3s2                                   |
| <u>Gilead</u><br>2-15% slopes                         | Loblolly pine<br>Slash pine<br>Longleaf pine  | 83+5<br>80<br>66+5                      | 76-90<br>76-90<br>60-72                              | Slight              | Slight                | Slight             | Slash pine<br>Loblolly pine  | 3o1                                   |
| <u>Goldsboro</u><br>0-5% slopes                       | Loblolly pine<br>Slash pine<br>Longleaf pine<br>Sweetgum<br>Red oaks<br>White oaks              | 90+7<br>93+5<br>77+6<br>90<br>-<br>-    | 76-90<br>76-90<br>70-84<br>85-96<br>-<br>-           | Slight              | Moderate              | Slight             | Loblolly pine<br>Slash pine<br>Sycamore<br>Yellow-poplar<br>Sweetgum | 2w8                                   |

TABLE 2. SOIL RATINGS FOR WOODLAND USE  
 Southern Coastal Plain and Associated Areas of Georgia, North Carolina and South Carolina

| Soils   | Potential Productivity   |                                      |   | Management Problems |   |                    | Species Suitable for Planting  | Ordination Woodland Suitability Group |
|---|--|--------------------------------------|---|---------------------|---|--------------------|--|---------------------------------------|
|   | Tree Species   | Avg. Site Index & Standard Deviation | Range of Site Index                                     | Erosion Hazard      | Equipment Restriction   | Seedling Mortality |  |                                       |
| (1)   | (2)  | (3)                                  | (4)   | (5)                 | (6)   | (7)                | (8)  | (9)                                   |
| <u>Grady</u><br>0-2% slopes                                       | <u>Loblolly pine</u> 1/<br>Slash pine 1/<br>Sweetgum 1/<br>Tupelos                                       | 90+6<br>88<br>90<br>-                | 82-98<br>80-95<br>-<br>-                                | Slight              | Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/  |                    | Loblolly pine 3/<br>Slash pine 3/<br>Sycamore<br>Water tupelo        | 2w9                                   |
| <u>Grangeburg</u><br>0-5% slopes                                  | <u>Loblolly pine</u><br>Slash pine<br>Sweetgum<br>Red oaks<br>White oaks                                 | 90<br>90<br>90<br>-<br>-             | 86-95<br>85-95<br>85-96<br>-<br>-                       | Slight              | Moderate  | Moderate           | Slash pine<br>Loblolly pine<br>Sycamore<br>Yellow-poplar<br>Sweetgum | 2w8                                   |
| <u>Greenville</u><br>(sandy loam to fine sandy loam) 1-15% slopes | <u>Loblolly pine</u><br>Slash pine<br>Longleaf pine  | 83+5<br>82<br>70                     | 77-90<br>76-90<br>65-75                                 | Slight              | Slight  | Slight             | Loblolly pine<br>Slash pine  | 3o1                                   |
| sandy clay to clay, 5-15% slopes, eroded                          | <u>Loblolly pine</u><br>Longleaf pine  | 76<br>66                             | 72-82<br>60-70  | Moderate            | Moderate  | Moderate           | Loblolly pine  | 3c2                                   |
| <u>Henderson</u><br>1-15% slopes                                  | <u>Loblolly pine</u><br>Slash pine<br>Longleaf pine  | 80<br>80<br>68                       | 76-85<br>76-85<br>65-75                                 | Slight              | Slight  | Slight             | Loblolly pine<br>Slash pine  | 3o1                                   |
| <u>Hockley</u><br>0-5% slopes                                     | <u>Loblolly pine</u><br>Longleaf pine<br>Sweetgum<br>Red oaks<br>White oaks                              | 89<br>70<br>90<br>-<br>-             | 86-95<br>66-75<br>85-95<br>-<br>-                       | Slight              | Slight  | Slight             | Loblolly pine<br>Slash pine<br>Yellow-poplar                         | 2o7                                   |
| <u>Hoffman</u><br>1-15% slopes                                    | Loblolly pine<br>Slash pine<br><u>Longleaf pine</u>  | 70<br>70<br>57+3                     | 65-75<br>65-75<br>53-62                                 | Slight              | Slight  | Slight             | Slash pine<br>Longleaf pine  | 4o1                                   |
| <u>Hyde</u><br>0-2% slopes  | <u>Loblolly pine</u> 1/<br>Slash pine 1/<br>Tupelos<br>Sweetgum 1/<br>Water oaks<br>Cypress<br>Pond pine | 96<br>96<br>-<br>97<br>95<br>-<br>80 | 87-103<br>87-102<br>-<br>89-105<br>90-100<br>-<br>76-85 | Slight              | Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/ |                    | Slash pine 3/<br>Loblolly pine 3/<br>Water tupelo<br>Sweetgum 3/     | 1w9                                   |
| <u>Irvington</u><br>0-10% slopes                                  | Slash pine<br>Loblolly pine<br>Longleaf pine<br>Yellow-poplar<br>Red oaks                                | 86<br>86<br>68<br>90<br>-            | 80-92<br>80-92<br>64-72<br>86-98<br>-                   | Slight              | Slight  | Slight             | Loblolly pine<br>Slash pine<br>Yellow-poplar                         | 2o7                                   |

TABLE 2. SOIL RATINGS FOR WOODLAND USE  
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| Soils  | Potential Productivity  |                                      |                     | Management Problems |                       |                    | Species Suitable for Planting | Ordination Woodland Suitability Group |
|--|-------------------------|--------------------------------------|---------------------|---------------------|-----------------------|--------------------|-------------------------------|---------------------------------------|
|  | Tree Species            | Avg. Site Index & Standard Deviation | Range of Site Index | Erosion Hazard      | Equipment Restriction | Seedling Mortality |                               |                                       |
| (1)  | (2)                     | (3)                                  | (4)                 | (5)                 | (6)                   | (7)                | (8)                           | (9)                                   |
| <u>Iuka</u><br>0-2% slopes                                   | <u>Loblolly pine</u>    | 97+7                                 | 90-105              | Slight              | Moderate              | Moderate           | Loblolly pine                 | 1w8                                   |
|  | <u>Sweetgum</u>         | 102+6                                | 90-109              |                     |                       |                    | Slash pine                    |                                       |
|  | Water oak               | 100+9                                | 88-107              |                     |                       |                    | Sycamore                      |                                       |
|  | Yellow-poplar           | -                                    | -                   |                     |                       |                    | Yellow-poplar                 |                                       |
|  | Sycamore                | -                                    | -                   |                     |                       |                    | Sweetgum                      |                                       |
|  | Red oaks                | -                                    | -                   |                     |                       |                    | Cherrybark oak                |                                       |
| <u>Izagora</u><br>0-5% slopes                                | <u>Loblolly pine</u>    | 90                                   | 86-95               | Slight              | Moderate              | Moderate           | Loblolly pine                 | 2w8                                   |
|  | <u>Sweetgum</u>         | 90                                   | 80-100              |                     |                       |                    | Yellow-poplar                 |                                       |
|  | Yellow-poplar           | -                                    | -                   |                     |                       |                    | Sweetgum                      |                                       |
|  | Red oaks                | -                                    | -                   |                     |                       |                    | Slash pine                    |                                       |
|  | White oaks              | -                                    | -                   |                     |                       |                    | Cherrybark oak                |                                       |
| <u>Johns</u><br>0-2% slopes                                  | <u>Loblolly pine</u>    | 86                                   | 81-92               | Slight              | Moderate              | Moderate           | Loblolly pine                 | 2w2                                   |
|  | Sweetgum                | 90                                   | 80-100              |                     |                       |                    | Slash pine                    |                                       |
|  | Slash pine              | 86                                   | 80-92               |                     |                       |                    |                               |                                       |
| <u>Johnston</u><br>0-2% slopes                               | <u>Loblolly pine</u> 1/ | 97                                   | 87-103              | Slight              | Severe 2/             | Severe 2/          | Loblolly pine                 | 1w9                                   |
|  | <u>Sweetgum</u> 1/      | 111                                  | 99-113              |                     |                       |                    | Slash pine 3/                 |                                       |
|  | <u>Water oak</u>        | 103                                  | 90-110              |                     |                       |                    | Sweetgum 3/                   |                                       |
|  | Tupelos                 | -                                    | -                   |                     |                       |                    | Water tupelo                  |                                       |
|  | Cypress                 | -                                    | -                   |                     |                       |                    |                               |                                       |
|  | Red oaks                | -                                    | -                   |                     |                       |                    |                               |                                       |
|  | White oaks              | -                                    | -                   |                     |                       |                    |                               |                                       |
| <u>Kalmia</u><br>(lower slopes and terraces)<br>0-10% slopes | <u>Loblolly pine</u>    | 88+5                                 | 84-93               | Slight              | Slight                | Slight             | Loblolly pine                 | 2o7                                   |
|  | Slash pine              | 88                                   | 81-93               |                     |                       |                    | Slash pine                    |                                       |
|  | Sweetgum                | 85                                   | 80-90               |                     |                       |                    | Yellow-poplar                 |                                       |
|  | Yellow-poplar           | 96                                   | 90-105              |                     |                       |                    | Cherrybark oak                |                                       |
|  | Red oaks                | -                                    | -                   |                     |                       |                    |                               |                                       |
|  | White oaks              | -                                    | -                   |                     |                       |                    |                               |                                       |
| upper slopes<br>2-25% slopes                                 | <u>Loblolly pine</u>    | 86                                   | 81-91               | Slight              | Slight                | Slight             | Slash pine                    | 2o1                                   |
|  | <u>Slash pine</u>       | 86                                   | 80-90               |                     |                       |                    | Loblolly pine                 |                                       |
| <u>Kenansville</u><br>0-5% slopes                            | <u>Loblolly pine</u>    | 80                                   | 76-85               | Slight              | Moderate              | Moderate           | Slash pine                    | 3s2                                   |
|  | <u>Longleaf pine</u>    | 65                                   | 60-70               |                     |                       |                    | Loblolly pine                 |                                       |
| <u>Kershaw</u><br>2-25% slopes                               | Slash pine              | 65                                   | 55-70               | Slight              | Moderate              | Severe             | Sand pine                     | 5s3                                   |
|  | <u>Longleaf pine</u>    | 55                                   | 50-60               |                     |                       |                    | Longleaf pine                 |                                       |
|  | Slash pine              |                                      |                     |                     |                       |                    | Slash pine                    |                                       |
| <u>Kiawah</u><br>0-5% slopes                                 | <u>Loblolly pine</u>    | 83+6                                 | 76-91               | Slight              | Moderate              | Moderate           | Slash pine                    | 3w2                                   |
|  | <u>Longleaf pine</u>    | 66+4                                 | 60-71               |                     |                       |                    | Loblolly pine                 |                                       |
|  | Slash pine              | 80                                   | 70-85               |                     |                       |                    |                               |                                       |
|  | Sweetgum                | 80                                   | 76-85               |                     |                       |                    |                               |                                       |
|  | Water oak               | 80                                   | 76-85               |                     |                       |                    |                               |                                       |
| <u>Kinston</u><br>0-2% slopes                                | <u>Loblolly pine</u> 1/ | 100+9                                | 90-110              | Slight              | Severe 2/             | Severe 2/          | Loblolly pine 3/              | 1w9                                   |
|  | <u>Sweetgum</u> 1/      | 95                                   | 85-100              |                     |                       |                    | Slash pine 3/                 |                                       |
|  | Water oaks              | 90                                   | 80-95               |                     |                       |                    | Sweetgum 3/                   |                                       |
|  | Tupelos                 | -                                    | -                   |                     |                       |                    |                               |                                       |
|  | Cottonwood 1/           | 100                                  | 90-110              |                     |                       |                    |                               |                                       |

TABLE 2. SOIL RATINGS FOR WOODLAND USE  
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| Soils  | Potential Productivity  |   |  | Management Problems |                       |                    | Species Suitable for Planting  | Ordination Woodland Suitability Group |
|--|---|---|--|---------------------|-----------------------|--------------------|--|---------------------------------------|
|  | Tree Species  | Avg. Site Index & Standard Deviation            | Range of Site Index                              | Erosion Hazard      | Equipment Restriction | Seedling Mortality |  |                                       |
| (1)  | (2)   | (3)   | (4)  | (5)                 | (6)                   | (7)                | (8)  | (9)                                   |
| Lakeland<br>1-25% slopes                               | Loblolly pine<br>Slash pine<br>Longleaf pine  | 75+5<br>75<br>61+4                              | 64-81<br>65-80<br>56-66                          | Slight              | Moderate              | Moderate           | Slash pine<br>Longleaf pine  | 4s2                                   |
| Leaf<br>0-2% slopes                                    | Loblolly pine 1/<br>Slash pine 1/<br>Sweetgum 1/<br>Water oaks<br>Red oaks<br>White oaks                        | 91+5<br>90<br>85                                | 84-100<br>84-100<br>75-90                        | Slight              | Severe 2              | Severe 2           | Loblolly pine 3/<br>Slash pine 3/<br>Sweetgum 3/                     | 2w9                                   |
| Leefield<br>0-5% slopes                                | Loblolly pine<br>Slash pine<br>Longleaf pine  | 84<br>84<br>70                                  | 74-90<br>75-90<br>65-75                          | Slight              | Moderate              | Moderate           | Slash pine<br>Loblolly pine  | 3w2                                   |
| Lenoir<br>0-5% slopes                                  | Loblolly pine<br>Slash pine<br>Sweetgum<br>Red oaks<br>White oaks<br>Longleaf pine                              | 86+5<br>85<br>88                                | 75-92<br>78-92<br>84-95                          | Slight              | Moderate              | Moderate           | Loblolly pine<br>Slash pine<br>Sycamore<br>Sweetgum                  | 2w8                                   |
| Leon<br>0-5% slopes                                    | Loblolly pine<br>Slash pine<br>Longleaf pine  | 74<br>74<br>65+6                                | 67-83<br>67-83<br>58-71                          | Slight              | Moderate              | Moderate           | Slash pine<br>Loblolly pine  | 4w2                                   |
| Lucy<br>1-25% slopes                                   | Loblolly pine<br>Slash pine<br>Longleaf pine  | 84+4<br>84<br>71+5                              | 79-90<br>79-90<br>63-76                          | Slight              | Moderate              | Moderate           | Slash pine<br>Loblolly pine  | 3s2                                   |
| Lumbee<br>0-2% slopes                                  | Loblolly pine 1/<br>Slash pine 1/<br>Pond pine<br>Water tupelo<br>Sweetgum<br>White oak                         | 94+5<br>91+5<br>75<br>70<br>90<br>-             | 86-102<br>83-99<br>70-81<br>-<br>-<br>-          | Slight              | Severe 2              | Severe 2           | Slash pine 3/<br>Loblolly pine 3/<br>Water tupelo<br>Sweetgum        | 2w9                                   |
| Lynchburg<br>0-5% slopes                               | Slash pine<br>Loblolly pine<br>Longleaf pine<br>Yellow-poplar<br>Sweetgum<br>Red oaks<br>White oaks<br>Blackgum | 91+4<br>86+4<br>74+5<br>92<br>90<br>-<br>-<br>- | 79-94<br>79-94<br>68-79<br>85-100<br>-<br>-<br>- | Slight              | Moderate              | Slight             | Slash pine<br>Loblolly pine<br>Yellow-poplar<br>Sycamore<br>Sweetgum | 2w8                                   |
| Lynn Haven<br>0-2% slopes                              | Slash pine 1/<br>Loblolly pine 1/<br>Longleaf pine 1/   | 70<br>70<br>60                                  | 62-78<br>62-78<br>54-66                          | Slight              | Severe 2              | Severe 2           | Slash pine 3/<br>Loblolly pine 3/                                    | 4w3                                   |
| Magnolia<br>(loamy sand to sandy loam)<br>0-25% slopes | Loblolly pine<br>Slash pine<br>Longleaf pine  | 82+6<br>80<br>61                                | 76-88<br>76-86<br>56-66                          | Slight              | Slight                | Slight             | Loblolly pine<br>Slash pine  | 3o1                                   |

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| Soils   | Potential Productivity   |   |  | Management Problems |                       |                    | Species Suitable for Planting  | Ordination Woodland Suitability Group |
|---|--|---|--|---------------------|-----------------------|--------------------|--|---------------------------------------|
|   | Tree Species   | Avg. Site Index & Standard Deviation                                | Range of Site Index  | Erosion Hazard      | Equipment Restriction | Seedling Mortality |  |                                       |
| (1)   | (2)  | (3)   | (4)  | (5)                 | (6)                   | (7)                | (8)  | (9)                                   |
| Magnolia - Con't  |  |   |  |                     |                       |                    |  |                                       |
| clay to sandy clay, eroded, 5-25% slopes                    | <u>Loblolly pine</u>   | 76  | 70-82  | Moderate            | Moderate              | Moderate           | Loblolly pine  | 3c2                                   |
| <u>Mantachie</u><br>0-2% slopes                             | <u>Loblolly pine</u><br>Slash pine<br><u>Sweetgum</u><br>Water oak<br>Cottonwood<br>Green ash<br>Sycamore<br>Tupelos<br>Red oaks<br>White oaks | 98+7<br>96<br>100+6<br>94+5<br>92<br>88+10<br>-<br>-<br>-<br>-<br>- | 90-106<br>87-103<br>88-107<br>82-101<br>72-103<br>66-93<br>-<br>-<br>-<br>-<br>- | Slight              | Moderate              | Moderate           | Loblolly pine<br>Slash pine<br>Sweetgum<br>Cottonwood<br>Sycamore<br>Yellow-poplar<br>Cherrybark oak | 1w8                                   |
| Marlboro<br>(loamy sand to fine sandy loam)<br>0-15% slopes | <u>Loblolly pine</u><br>Slash pine<br>Longleaf pine  | 82+6<br>80<br>62  | 76-89<br>76-86<br>57-66  | Slight              | Slight                | Slight             | Slash pine<br>Loblolly pine  | 3o1                                   |
| clay loam to sandy clay, eroded, 2-15% slopes               | <u>Loblolly pine</u>   | 77  | 71-82  | Moderate            | Moderate              | Moderate           | Loblolly pine  | 3c2                                   |
| <u>Mascotte</u><br>0-2% slopes                              | Slash pine<br><u>Loblolly pine</u><br>Longleaf pine  | 77<br>77<br>65+5  | 72-88<br>72-88<br>60-70  | Slight              | Moderate              | Moderate           | Slash pine<br>Loblolly pine  | 3w2                                   |
| <u>Maxton</u><br>0-10% slopes                               | <u>Loblolly pine</u><br>Sweetgum<br>Yellow-poplar<br>Red oaks<br>White oaks  | 90<br>90<br>100   | 86-95<br>85-95<br>90-110   | Slight              | Slight                | Slight             | Loblolly pine<br>Slash pine<br>Yellow-poplar<br>Cherrybark oak                                       | 2o7                                   |
| <u>McColl</u><br>0-2% slopes                                | <u>Loblolly pine</u> 1/<br>Slash pine 1/<br>Pond pine<br>Cypress<br>Tupelos  | 87+6<br>86<br>70  | 81-93<br>81-93<br>64-76  | Slight              | Severe 2/             | Severe 2/          | Slash pine 3/<br>Loblolly pine 3/<br>Sweetgum 3/<br>Sycamore 3/<br>Shumard oak 3/<br>Water tupelo    | 2w9                                   |
| <u>Meggett</u><br>0-2% slopes                               | Slash pine 1/<br><u>Loblolly pine</u> 1/<br>Sweetgum 1/<br>Water oak<br>Green ash  | 101+6<br>100<br>100<br>100  | 92-108<br>92-108<br>90-110<br>90-110   | Slight              | Severe 2/             | Severe 2/          | Slash pine 3/<br>Loblolly pine 3/<br>Sweetgum 3/<br>Sycamore 3/                                      | 1w9                                   |
| <u>Myatt</u><br>0-2% slopes                                 | <u>Loblolly pine</u> 1/<br>Slash pine 1/<br>Sweetgum 1/<br>Water oak<br>Red oaks<br>Sycamore<br>White oaks                                     | 95+6<br>92<br>92<br>86<br>-<br>-<br>-                               | 87-103<br>85-100<br>77-99<br>71-93   | Slight              | Severe 2/             | Severe 2/          | Loblolly pine 3/<br>Slash pine 3/<br>Sweetgum 3/<br>Sycamore 3/<br>Shumard oak                       | 2w9                                   |

TABLE 2. SOIL RATINGS FOR WOODLAND USE  
 Southern Coastal Plain and Associated Areas of Georgia, North Carolina and South Carolina

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| Soils                      | Potential Productivity  |   |  | Management Problems |                       |                    | Species Suitable for Planting  | Ordination Woodland Suitability Group |
|----------------------------|---|---|--|---------------------|-----------------------|--------------------|--|---------------------------------------|
|                            | Tree Species  | Avg. Site Index & Standard Deviation    | Range of Site Index                                | Erosion Hazard      | Equipment Restriction | Seedling Mortality |  |                                       |
| (1)                        | (2)   | (3)                                     | (4)  | (5)                 | (6)                   | (7)                | (8)  | (9)                                   |
| Nahunta<br>0-2% slopes     | Loblolly pine<br>Slash pine<br>Sweetgum<br>Yellow-poplar<br>Red oaks<br>White oaks              | 87+4<br>86<br>90<br>100<br>-<br>-       | 79-95<br>79-93<br>85-96<br>90-110<br>-<br>-        | Slight              | Moderate              | Moderate           | Loblolly pine<br>Slash pine<br>Yellow-poplar<br>Sycamore<br>Cherrybark oak               | 2w8                                   |
| Nixonton<br>0-5% slopes    | Loblolly pine<br>Slash pine<br>Yellow-poplar<br>Sweetgum<br>Red oaks<br>White oaks<br>White ash | 90<br>90<br>100<br>90<br>-<br>-<br>-    | 86-95<br>85-95<br>90-110<br>80-100<br>-<br>-<br>-  | Slight              | Slight                | Slight             | Loblolly pine<br>Slash pine<br>Yellow-poplar   | 2o7                                   |
| Norfolk<br>0-15% slopes    | Loblolly pine<br>Longleaf pine<br>Slash pine  | 86+5<br>68+4<br>86                      | 78-92<br>63-73<br>78-92                            | Slight              | Slight                | Slight             | Slash pine<br>Loblolly pine  | 2o1                                   |
| Ochlockonee<br>0-5% slopes | Loblolly pine<br>Slash pine<br>Sweetgum<br>Water oak<br>Yellow-poplar<br>Red oaks<br>White oaks | 98+5<br>98<br>90+5<br>82<br>-<br>-<br>- | 95-105<br>94-105<br>78-100<br>70-89<br>-<br>-<br>- | Slight              | Slight                | Slight             | Slash pine<br>Loblolly pine<br>Yellow-poplar<br>Cottonwood<br>Sycamore<br>Cherrybark oak | 1o7                                   |
| Ocilla<br>0-5% slopes      | Slash pine<br>Loblolly pine<br>Longleaf pine  | 80+5<br>79+6<br>68+6                    | 72-88<br>72-88<br>60-75                            | Slight              | Moderate              | Moderate           | Slash pine<br>Loblolly pine  | 3w2                                   |
| Oktibbeha<br>2-10% slopes  | Loblolly pine<br>Redcedar<br>Southern red oak   | 76+5<br>45<br>70                        | 69-82<br>40-50<br>66-75                            | Slight to Moderate  | Moderate              | Moderate           | Loblolly pine<br>Redcedar  | 3c8                                   |
| Olustee<br>0-2% slopes     | Loblolly pine<br>Slash pine<br>Longleaf pine  | 78<br>76<br>68                          | 69-82<br>69-83<br>63-72                            | Slight              | Moderate              | Moderate           | Slash pine<br>Loblolly pine  | 3w2                                   |
| Onslow<br>0-5% slopes      | Loblolly pine<br>Slash pine<br>Longleaf pine  | 76<br>80<br>67                          | 70-82<br>80-95<br>62-73                            | Slight              | Slight                | Slight             | Slash pine<br>Loblolly pine  | 3o1                                   |
| Orangeburg<br>1-25% slopes | Loblolly pine<br>Slash pine<br>Longleaf pine  | 86+5<br>86<br>70                        | 80-92<br>80-92<br>65-75                            | Slight              | Slight                | Slight             | Slash pine<br>Loblolly pine  | 2o1                                   |
| Osier<br>0-5% slopes       | Slash pine 1/<br>Loblolly pine 1/<br>Longleaf pine 1/   | 80<br>80<br>68                          | 72-88<br>72-88<br>62-73                            | Slight              | Severe 2/             | Severe 2/          | Slash pine 3/  | 3w3                                   |
| Pactolus<br>0-5% slopes    | Loblolly pine<br>Slash pine<br>Longleaf pine  | 84<br>83<br>70                          | 76-91<br>76-91<br>64-78                            | Slight              | Moderate              | Moderate           | Slash pine<br>Loblolly pine  | 3w2                                   |

TABLE 2. SOIL RATINGS FOR WOODLAND USE  
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| Soils                     | Potential Productivity  |                                      |   | Management Problems |  |  | Species Suitable for Planting  | Ordination Woodland Suitability Group |
|---------------------------|---|--------------------------------------|---|---------------------|--|--|--|---------------------------------------|
|                           | Tree Species  | Avg. Site Index & Standard Deviation | Range of Site Index                         | Erosion Hazard      | Equipment Restriction  | Seedling Mortality   |  |                                       |
| (1)                       | (2)   | (3)                                  | (4)   | (5)                 | (6)  | (7)  | (8)  | (9)                                   |
| Pamlico<br>0-2% slopes    | Loblolly pine 1/<br>Pond pine<br>Water tupelo<br>Baldcypress                            | 75<br>55<br>60<br>-                  | 68-80<br>-<br>-<br>-                        | Slight              | Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/                           | Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/                           | Slash pine 3/<br>Loblolly pine 3/<br>-   | 4w3                                   |
| Pansey<br>0-2% slopes     | Loblolly pine 1/<br>Sweetgum 1/<br>Slash pine 1/<br>Water oak<br>Red oaks<br>White oaks | 82+6<br>80<br>80<br>80<br>-<br>-     | 77-92<br>75-85<br>72-88<br>75-86<br>-<br>-  | Slight              | Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/ | Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/ | Slash pine 3/<br>Loblolly pine 3/<br>Sweetgum 3/<br>Shumard oak 3/<br>-                | 3w9                                   |
| Pantego<br>0-2% slopes    | Loblolly pine 1/<br>Slash pine<br>Pond pine<br>Cypress<br>Tupelos<br>Water oaks         | 98+5<br>95<br>73+5<br>-<br>-<br>-    | 88-104<br>82-98<br>67-79<br>-<br>-<br>-     | Slight              | Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/ | Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/ | Slash pine 3/<br>Loblolly pine 3/<br>Sycamore 3/<br>Sweetgum 3/<br>Water tupelo        | 1w9                                   |
| Pasquotank<br>0-2% slopes | Loblolly pine 1/<br>Green ash<br>Sweetgum 1/<br>Water oaks                              | 94<br>80<br>90<br>90                 | 86-100<br>76-85<br>86-95<br>86-95           | Slight              | Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/                           | Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/                           | Loblolly pine 3/<br>Slash pine 3/<br>Sweetgum 3/<br>Sycamore 3/<br>-                   | 2w9                                   |
| Pelham<br>0-2% slopes     | Slash pine 1/<br>Loblolly pine 1/<br>Longleaf pine 1/<br>Tupelos                        | 90+2<br>90<br>74<br>-                | 82-98<br>82-98<br>66-80<br>-                | Slight              | Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/                           | Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/                           | Slash pine 3/<br>Loblolly pine 3/<br>-   | 2w3                                   |
| Poarch<br>0-5% slopes     | Slash pine<br>Loblolly pine<br>Longleaf pine  | 90<br>90<br>73                       | 85-95<br>85-95<br>66-78                     | Slight              | Slight   | Slight   | Slash pine<br>Loblolly pine  | 2o1                                   |
| Pocalla<br>0-15% slopes   | Loblolly pine<br>Slash pine<br>Longleaf pine  | 80<br>83<br>65                       | 76-85<br>76-87<br>60-70                     | Slight              | Moderate   | Moderate   | Slash pine<br>Loblolly pine  | 3s2                                   |
| Ponzer<br>0-2% slopes     | Slash pine 1/<br>Pond pine<br>Tupelos<br>Cypress  | 70<br>60<br>-<br>-                   | 65-80<br>55-66<br>-<br>-                    | Slight              | Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/                           | Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/                           | Slash pine 3/<br>Loblolly pine 3/<br>-   | 4w3                                   |
| Pooler<br>0-2% slopes     | Loblolly pine 1/<br>Slash pine 1/<br>Sweetgum 1/<br>Red oaks<br>Tupelos                 | 95<br>95<br>90<br>-<br>-             | 86-101<br>86-101<br>85-95<br>-<br>-         | Slight              | Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/              | Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/              | Slash pine 3/<br>Loblolly pine 3/<br>Sweetgum 3/<br>Nuttall oak 3/<br>Sycamore 3/<br>- | 2w9                                   |
| Portsmouth<br>0-2% slopes | Loblolly pine 1/<br>Slash pine 1/<br>Pond pine<br>Water oaks 1/<br>Tupelos<br>Cypress   | 96<br>90<br>80<br>90<br>-<br>-       | 85-101<br>82-98<br>74-85<br>84-97<br>-<br>- | Slight              | Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/ | Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/<br>Severe 2/ | Loblolly pine 3/<br>Slash pine 3/<br>Sycamore 3/<br>Water tupelo                       | 1w9                                   |

TABLE 2. SOIL RATINGS FOR WOODLAND USE  
 Southern Coastal Plain and Associated Areas of Georgia, North Carolina and South Carolina

| Soils                      | Potential Productivity   |                                      |  | Management Problems |                       |                    | Species Suitable for Planting   | Ordination Woodland Suitability Group |
|----------------------------|--|--------------------------------------|--|---------------------|-----------------------|--------------------|---|---------------------------------------|
|                            | Tree Species   | Avg. Site Index & Standard Deviation | Range of Site Index                    | Erosion Hazard      | Equipment Restriction | Seedling Mortality |   |                                       |
| (1)                        | (2)  | (3)                                  | (4)                                    | (5)                 | (6)                   | (7)                | (8)   | (9)                                   |
| Plummer<br>0-2% slopes     | Slash pine 1/<br>Loblolly pine 1/<br>Longleaf pine 1/<br>Tupelos                   | 88+5<br>91<br>70                     | 77-93<br>80-95<br>64-75                | Slight              | Severe 2/             | Severe 2/          | Slash pine 3/<br>Loblolly pine 3/   | 2w3                                   |
| Rains<br>0-2% slopes       | Slash pine 1/<br>Loblolly pine 1/<br>Sweetgum 1/<br>Tupelos                        | 91+5<br>94+5<br>90                   | 81-97<br>84-100<br>80-95               | Slight              | Severe 2/             | Severe 2/          | Slash pine 3/<br>Loblolly pine 3/   | 2w3                                   |
| Red Bay<br>1-15% slopes    | Loblolly pine<br>Slash pine<br>Longleaf pine                                       | 89<br>87<br>70                       | 85-95<br>85-95<br>65-75                | Slight              | Slight                | Slight             | Slash pine<br>Loblolly pine   | 2o1                                   |
| Rimini<br>0-5% slopes      | Loblolly pine<br>Slash pine<br>Longleaf pine                                       | 65<br>65<br>55                       | 56-70<br>55-70<br>50-60                | Slight              | Moderate              | Severe             | Slash pine<br>Longleaf pine<br>Sand pine  | 5s3                                   |
| Riverview<br>0-5% slopes   | Loblolly pine<br>Slash pine<br>Yellow-poplar<br>Sweetgum<br>Red oaks               | 97<br>97<br>120<br>110               | 93-103<br>93-103<br>110-125<br>105-115 | Slight              | Slight                | Slight             | Slash pine<br>Loblolly pine<br>Yellow-poplar<br>Sycamore<br>Cottonwood          | 1o7                                   |
| Robertsdale<br>0-5% slopes | Loblolly pine<br>Slash pine<br>Sweetgum<br>Blackgum<br>Red oaks                    | 90<br>90<br>83<br>-<br>-             | 85-96<br>85-96<br>80-90<br>-<br>-      | Slight              | Moderate              | Moderate           | Loblolly pine<br>Slash pine<br>Sweetgum<br>Sycamore                             | 2w8                                   |
| Ruston<br>1-25% slopes     | Loblolly pine<br>Slash pine<br>Longleaf pine                                       | 91<br>90<br>74                       | 86-96<br>86-95<br>68-79                | Slight              | Slight                | Slight             | Slash pine<br>Loblolly pine   | 2o1                                   |
| Rutledge<br>0-2% slopes    | Slash pine 1/<br>Loblolly pine 1/<br>Tupelos<br>Cypress                            | 86<br>86<br>-<br>-                   | 78-94<br>78-94<br>-<br>-               | Slight              | Severe 2/             | Severe 2/          | Slash pine 3/<br>Loblolly pine 3/   | 2w3                                   |
| Santee<br>0-2% slopes      | Loblolly pine 1/<br>Slash pine 1/<br>Sweetgum 1/<br>Tupelos<br>Water oaks          | 100<br>100<br>100<br>-<br>100        | 92-108<br>92-108<br>95-105<br>-<br>-   | Slight              | Severe 2/             | Severe 2/          | Slash pine 3/<br>Loblolly pine 3/<br>Sweetgum 3/<br>Sycamore 3/<br>Water tupelo | 1w9                                   |
| Sawyer<br>0-5% slopes      | Loblolly pine<br>Slash pine<br>Sweetgum<br>Red oaks<br>White oaks<br>Yellow-poplar | 90<br>90<br>90<br>-<br>-<br>-        | 85-95<br>85-95<br>84-96<br>-<br>-<br>- | Slight              | Moderate              | Slight             | Loblolly pine<br>Slash pine<br>Sycamore<br>Yellow-poplar                        | 2w8                                   |
| Scranton<br>0-2% slopes    | Slash pine<br>Loblolly pine<br>Longleaf pine                                       | 83<br>83<br>68                       | 72-88<br>72-88<br>62-75                | Slight              | Moderate              | Moderate           | Slash pine<br>Loblolly pine   | 3w2                                   |

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| Soils   | Potential Productivity  |                                      |                                 | Management Problems |                        |                        | Species Suitable for Planting   | Ordination Woodland Suitability Group |
|---|---|--------------------------------------|---------------------------------|---------------------|------------------------|------------------------|---|---------------------------------------|
|   | Tree Species  | Avg. Site Index & Standard Deviation | Range of Site Index             | Erosion Hazard      | Equipment Restriction  | Seedling Mortality     |   |                                       |
| (1)   | (2)   | (3)                                  | (4)                             | (5)                 | (6)                    | (7)                    | (8)   | (9)                                   |
| <u>Seabrook</u><br>0-2% slopes                                    | Slash pine<br><u>Loblolly pine</u><br>Longleaf pine                         | 87<br>87<br>70                       | 80-92<br>80-92<br>64-75         | Slight              | Moderate               | Moderate               | Slash pine<br>Loblolly pine   | 2w2                                   |
| <u>Seewee</u><br>0-2% slopes                                      | Slash pine<br><u>Loblolly pine</u><br>Longleaf pine                         | 80<br>80<br>72                       | 75-85<br>75-85<br>66-80         | Slight              | Moderate               | Slight                 | Slash pine<br>Loblolly pine   | 3w2                                   |
| <u>Shubuta</u><br>(Loamy sand to fine sandy loam)<br>1-25% slopes | <u>Loblolly pine</u><br>Slash pine<br>Longleaf pine                         | 82+4<br>80<br>70                     | 76-87<br>75-85<br>65-75         | Slight              | Slight                 | Slight                 | Loblolly pine<br>Slash pine   | 3ol                                   |
| sandy clay to silty clay, eroded, 5-25% slopes                    | <u>Loblolly pine</u>  | 76                                   | -                               | Moderate            | Moderate               | Moderate               | Loblolly pine   | 3c2                                   |
| <u>Stilson</u><br>0-5% slopes                                     | Loblolly pine<br><u>Slash pine</u><br>Longleaf pine                         | 83<br>83+5<br>70                     | -<br>-<br>-                     | Slight              | Moderate               | Slight to Moderate     | Slash pine<br>Loblolly pine<br>Longleaf pine                                      | 3s2                                   |
| <u>Stono</u><br>0-2% slopes                                       | <u>Loblolly pine</u> 1/<br>Slash pine 1/<br>Tupelos<br>Cypress<br>Pond pine | 96<br>93<br>-<br>-<br>-              | 88-103<br>85-100<br>-<br>-<br>- | Slight              | Severe 2/<br>Severe 2/ | Severe 2/<br>Severe 2/ | Slash pine 3/<br>Loblolly pine 3/<br>Sycamore 3/<br>Shumard oak<br>Water tupelo   | 1w9                                   |
| <u>Sunsweet</u><br>0-15% slopes                                   | <u>Loblolly pine</u><br>Slash pine<br>Longleaf pine                         | 84<br>84<br>65                       | 76-90<br>77-90<br>60-70         | Slight              | Moderate               | Moderate               | Loblolly pine   | 3c2                                   |
| <u>Surrency</u><br>0-2% slopes                                    | <u>Loblolly pine</u> 1/<br>Slash pine 1/<br>Sweetgum 1/<br>Tupelos          | 95<br>90<br>90<br>-                  | 90-102<br>85-96<br>-<br>-       | Slight              | Severe 2/<br>Severe 2/ | Severe 2/<br>Severe 2/ | Loblolly pine 3/<br>Slash pine 3/<br>Sycamore 3/<br>Sweetgum 3/<br>Water tupelo   | 2w9                                   |
| <u>Susquehanna</u><br>1-25% slopes                                | <u>Loblolly pine</u><br>Slash pine<br>Longleaf pine                         | 82+6<br>80+5<br>67+6                 | 75-89<br>75-89<br>60-74         | Slight to Moderate  | Moderate               | Moderate               | Loblolly pine   | 3c2                                   |
| <u>Tifton</u><br>0-10% slopes                                     | <u>Loblolly pine</u><br>Slash pine<br>Longleaf pine                         | 86<br>86<br>68+4                     | 80-92<br>80-92<br>63-73         | Slight              | Slight                 | Slight                 | Slash pine<br>Loblolly pine   | 2ol                                   |
| <u>Torhunta</u><br>0-2% slopes                                    | <u>Loblolly pine</u> 1/<br>Slash pine 1/<br>Sweetgum 1/<br>Tupelos          | 90<br>86<br>90<br>-                  | 78-94<br>75-90<br>82-97<br>-    | Slight              | Severe 2/<br>Severe 2/ | Severe 2/<br>Severe 2/ | Slash pine 3/<br>Loblolly pine 3/<br>Sweetgum 3/<br>Sycamore 3/<br>Shumard oak 3/ | 2w9                                   |

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| Soils                     | Potential Productivity  |                                      |  | Management Problems |                       |                    | Species Suitable for Planting  | Ordination Woodland Suitability Group |
|---------------------------|---|--------------------------------------|--|---------------------|-----------------------|--------------------|--|---------------------------------------|
|                           | Tree Species  | Avg. Site Index & Standard Deviation | Range of Site Index                          | Erosion Hazard      | Equipment Restriction | Seedling Mortality |  |                                       |
| (1)                       | (2)   | (3)                                  | (4)  | (5)                 | (6)                   | (7)                | (8)  | (9)                                   |
| Trebloc<br>0-2% slopes    | Loblolly pine 1/<br>Slash pine 1/<br>Water oaks 1/<br>Sweetgum 1/                           | 95+6<br>95<br>90<br>96               | 88-102<br>88-102<br>80-98<br>90-105          | Slight              | Severe 2/             | Severe 2/          | Slash pine 3/<br>Loblolly pine 3/<br>Sweetgum 3/<br>Sycamore 3/<br>Nuttall oak                 | 2w9                                   |
| Troup<br>1-25% slopes     | Loblolly pine<br>Slash pine<br>Longleaf pine  | 82+5<br>84<br>64+5                   | 76-88<br>76-90<br>58-69                      | Slight              | Moderate              | Moderate           | Slash pine<br>Longleaf pine  | 3s2                                   |
| Tuckerman<br>0-2% slopes  | Loblolly pine 1/<br>Slash pine 1/<br>Sweetgum 1/<br>Tupelos<br>Red oaks                     | 92<br>91<br>90<br>-<br>-             | 82-98<br>82-98<br>85-97<br>-<br>-            | Slight              | Severe 2/             | Severe 2/          | Loblolly pine 3/<br>Slash pine 3/<br>Sweetgum 3/<br>Shumard oak 3/                             | 2w9                                   |
| Varina<br>0-10% slopes    | Loblolly pine<br>Slash pine<br>Longleaf pine  | 85<br>85<br>70                       | 80-90<br>80-90<br>65-75                      | Slight              | Slight                | Slight             | Loblolly pine<br>Slash pine  | 3ol                                   |
| Vaucluse<br>2-25% slopes  | Loblolly pine<br>Slash pine<br>Longleaf pine  | 76+6<br>75<br>56+5                   | 70-84<br>70-84<br>50-62                      | Slight              | Slight                | Slight             | Loblolly pine<br>Slash pine  | 3ol                                   |
| Wadmalaw<br>0-2% slopes   | Loblolly pine 1/<br>Slash pine 1/<br>Sweetgum 1/<br>Tupelos<br>Red oaks<br>White oaks       | 108+6<br>105<br>100<br>-<br>-<br>-   | 95-110<br>92-108<br>90-110<br>-<br>-<br>-    | Slight              | Severe 2/             | Severe 2/          | Slash pine 3/<br>Loblolly pine 3/<br>Sycamore 3/<br>Sweetgum 3/<br>Water tupelo                | 1w9                                   |
| Wagram<br>1-15% slopes    | Loblolly pine<br>Slash pine<br>Longleaf pine  | 82+5<br>80<br>67+4                   | 77-87<br>75-85<br>67-72                      | Slight              | Moderate              | Moderate           | Slash pine<br>Longleaf pine  | 3s2                                   |
| Wahee<br>0-5% slopes      | Loblolly pine<br>Slash pine<br>Sweetgum<br>Water oak<br>Red oaks<br>White oaks<br>White ash | 86+4<br>85<br>90<br>-<br>-<br>-<br>- | 78-94<br>75-91<br>80-100<br>-<br>-<br>-<br>- | Slight              | Moderate              | Moderate           | Loblolly pine<br>Slash pine<br>Sycamore<br>Yellow-poplar                                       | 2w8                                   |
| Wando<br>0-5% slopes      | Loblolly pine<br>Slash pine<br>Longleaf pine  | 79<br>77<br>70+1                     | 74-85<br>73-85<br>67-74                      | Slight              | Moderate              | Moderate           | Slash pine<br>Longleaf pine  | 3s2                                   |
| Weeksville<br>0-5% slopes | Loblolly pine 1/<br>Red oaks<br>White oaks<br>Tupelos                                       | 90<br>-<br>-<br>-                    | 82-98<br>-<br>-<br>-                         | Slight              | Severe 2/             | Severe 2/          | Loblolly pine 3/<br>Slash pine 3/<br>Sweetgum 3/<br>Sycamore 3/<br>Shumard oak<br>Water tupelo | 2w9                                   |

TABLE 2. SOIL RATINGS FOR WOODLAND USE Page 15 of 15  
 Southern Coastal Plain and Associated Areas of Georgia, North Carolina and South Carolina

Table 3, SOILS GROUPINGS ACCORDING TO WOODLAND SUITABILITY, is a summary of the most important interpretations for a woodland suitability group of soils.

Column one (1) includes the suitability group symbol and a brief description of the group of soils, including their important hazards and limitations for woodland use and management.

Column two (2) is a tabulation of the soils within each woodland suitability group.

Column three (3) is a list of some commercially-important tree species which occur on the soils in each suitability group.

Column four (4) shows the site class (site index rounded off to the nearest 10-foot interval) for the most important tree species listed in column three.

Column five (5) lists some of the most important tree species which are suitable for planting or direct seeding on the soils in each suitability group.

TABLE 3. SOIL GROUPINGS ACCORDING TO WOODLAND SUITABILITY  
 Coastal Plain and Associated Areas of Georgia, North Carolina and South Carolina

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| Woodland Suitability Group<br>(Symbol and Description)  | Soils   | Productivity  |   | Species<br>Suitable<br>for Planting  |
|---|---|---|---|--|
|   |   | Tree Species  | Site<br>Class                           |  |
| (1)   | (2)   | (3)   | (4)                                     | (5)  |
| 1o7 Soils with very high potential productivity; no serious management problems; suitable for broadleaf and/or needleleaf trees.  | Ochlockonee, 0-5% slopes<br>Riverview, 0-5% slopes  | Loblolly pine<br>Slash pine<br>Sweetgum<br>Water oak<br>Yellow-poplar<br>Red oaks<br>White oaks | 100<br>100<br>90<br>80<br>-<br>-<br>-   | Slash pine<br>Loblolly pine<br>Yellow-poplar<br>Sycamore<br>Cottonwood<br>Cherrybark oak       |
| 1w8 Seasonally wet soils with very high potential productivity; moderate equipment restrictions and slight to moderate seedling mortality; suitable for broadleaf and/or needleleaf trees.                        | Edisto, 0-2% slopes<br>Iuka, 0-2% slopes<br>Mantachie, 0-2% slopes  | Loblolly pine<br>Slash pine<br>Sweetgum<br>Yellow-poplar<br>Green ash<br>Red oaks<br>White oaks | 100<br>100<br>100<br>110<br>-<br>-<br>- | Slash pine<br>Loblolly pine<br>Yellow-poplar<br>Sycamore<br>Cherrybark oak                     |
| 1w9 Excessively wet soils with very high potential productivity; severe equipment restrictions and seedling mortality on areas without adequate surface drainage. Suitable for needleleaf and/or broadleaf trees. | Hyde, 0-2% slopes<br>Johnston, 0-2% slopes<br>Kinston, 0-2% slopes<br>Meggett, 0-2% slopes<br>Pantego, 0-2% slopes<br>Porstmouth, 0-2% slopes<br>Santee, 0-2% slopes<br>Stono, 0-2% slopes<br>Wadmalaw, 0-2% slopes<br>Yonges, 0-2% slopes  | Slash pine 1/<br>Loblolly pine 1/<br>Water oaks 1/<br>Tupelos<br>Pond pine                      | 100<br>100<br>90-100<br>-<br>80         | Loblolly pine 2/<br>Slash pine 2/<br>Sweetgum 2/<br>Sycamore 2/<br>Water tupelo<br>Shumard oak |
| 2o1 Soils with high potential productivity; no serious management problems; best suited for needleleaf trees.   | Aycock, 0-10% slopes<br>Bowie, 0-10% slopes<br>Brogdon, 0-5% slopes<br>Cahaba, upper slopes<br>5-25% slopes<br>Carnegie, 0-10% slopes<br>Cowarts, 2-10% slopes<br>Kalmia, upper slopes<br>2-25% slopes<br>Norfolk, 0-15% slopes<br>Orangeburg, 1-25% slopes<br>Poarch, 0-5% slopes<br>Red Bay, 1-15% slopes<br>Ruston, 1-25% slopes<br>Tifton, 0-10% slopes<br>Dothan, 2-10% slopes | Loblolly pine<br>Slash pine<br>Longleaf pine  | 90<br>90<br>70                          | Slash pine<br>Loblolly pine  |
| 2o7 Soils with high potential productivity; no serious management problems; suited for needleleaf and/or broadleaf trees.   | Amite, 0-5% slopes<br>Cahaba, lower slopes<br>and terraces, 0-10% slopes<br>Hockley, 0-5% slopes<br>Irvington, 0-10% slopes<br>Kalmia, lower slopes and<br>terraces, 0-10% slopes<br>Maxton, 0-10% slopes<br>Nixonton, 0-5% slopes<br>Wickham, 1-15% slopes   | Loblolly pine<br>Slash pine<br>Yellow-poplar<br>Red oaks<br>White oaks                          | 90<br>90<br>100<br>-<br>-               | Slash pine<br>Loblolly pine<br>Yellow-poplar<br>Black walnut                                   |
| 2w2 Seasonally wet soils with high productivity; moderate equipment restrictions and slight to moderate seedling mortality; best suited for needleleaf trees.   | Alapaha, 0-5% slopes<br>Chipley, 0-5% slopes<br>Johns, 0-2% slopes<br>Seabrook, 0-2% slopes   | Loblolly pine<br>Slash pine<br>Longleaf pine  | 90<br>90<br>70                          | Loblolly pine<br>Slash pine  |

1/ Potential productivity attainable only on areas with adequate surface drainage.

2/ Tree planting is feasible only on areas with adequate surface drainage.

TABLE 3. SOIL GROUPINGS ACCORDING TO WOODLAND SUITABILITYPage 2 of 4

Coastal Plain and Associated Areas of Georgia, North Carolina and South Carolina

| Woodland Suitability Group<br>(Symbol and Description)  | Soils  | Productivity   |  | Species<br>Suitable<br>for Planting   |
|---|--|--|--|---|
|   |  | Tree Species   | Site<br>Class                              |   |
| (1)   | (2)  | (3)  | (4)  | (5)   |
| <u>2w3</u> Excessively wet soils with high potential productivity; severe equipment limitations and seedling mortality without adequate surface drainage; best suited for needleleaf trees.                         | Pelham, 0-2% slopes<br>Plummer, 0-2% slopes<br>Rains, 0-2% slopes<br>Rutledge, 0-2% slopes   | Loblolly pine<br>Slash pine<br>Longleaf pine   | 90<br>90<br>70                             | Slash pine<br>Loblolly pine   |
| <u>2w8</u> Seasonally wet soils with high potential productivity; moderate equipment restrictions and slight to moderate seedling mortality; suitable for needleleaf trees and/or broadleaf trees.                  | Angie, 0-5% slopes<br>Ardilla, 0-5% slopes<br>Augusta, 0-5% slopes<br>Barclay, 0-2% slopes<br>Dragston, 0-5% slopes<br>Dunbar, 0-5% slopes<br>Duplin, 0-5% slopes<br>Exum, 0-5% slopes<br>Fairhope, 0-5% slopes<br>Goldsboro, 0-5% slopes<br>Grangeburg, 0-5% slopes<br>Izagora, 0-5% slopes<br>Lenoir, 0-5% slopes<br>Lynchburg, 0-5% slopes<br>Nahunta, 0-2% slopes<br>Robertsdale, 0-5% slopes<br>Sawyer, 0-5% slopes<br>Wahee, 0-5% slopes   | Loblolly pine<br>Slash pine<br>Sweetgum<br>Yellow-poplar<br>Water oak<br>Blackgum<br>Red oaks<br>White oaks                        | 90<br>90<br>90<br>100<br>90<br>-<br>-<br>- | Loblolly pine<br>Slash pine<br>Yellow-poplar<br>Sycamore<br>Sweetgum  |
| <u>2w9</u> Excessively wet soils with high potential productivity; severe equipment restrictions and seedling mortality on areas without adequate surface drainage; suitable for broadleaf and/or needleleaf trees. | Amy, 0-2% slopes<br>Bayboro, 0-2% slopes<br>Bibb, 0-2% slopes<br>Bladen, 0-2% slopes<br>Byars, 0-2% slopes<br>Cape Fear, 0-2% slopes<br>Chastain, 0-2% slopes<br>Coxville, 0-2% slopes<br>Dawhoo, 0-2% slopes<br>Grady, 0-2% slopes<br>Leaf, 0-2% slopes<br>Lumbee, 0-2% slopes<br>McColl, 0-2% slopes<br>Myatt, 0-2% slopes<br>Pasquotank, 0-2% slopes<br>Pooler, 0-2% slopes<br>Surrency, 0-2% slopes<br>Torhunta, 0-2% slopes<br>Trebloc, 0-2% slopes<br>Tuckerman, 0-2% slopes<br>Weeksville, 0-2% slopes<br>Weston, 0-2% slopes | Loblolly pine <u>1/</u><br>Slash pine <u>1/</u><br>Tupelos<br>Cypress<br>Sweetgum <u>1/</u><br>Green ash<br>Red oaks<br>White oaks | 90<br>90<br>-<br>-<br>90<br>-<br>-<br>-    | Loblolly pine <u>2/</u><br>Slash pine <u>2/</u><br>Sweetgum <u>2/</u><br>Sycamore <u>2/</u><br>Water tupelo<br>Shumard oak <u>2/</u><br>Water oak <u>2/</u> |
| <u>2s8</u> Sandy soils with high potential productivity; moderate equipment restrictions and seedling mortality; suitable for broadleaf and/or needleleaf trees.  | Buncombe, 0-5% slopes  | Loblolly pine<br>Slash pine<br>Water oak<br>Sweetgum<br>Cottonwood<br>Sycamore   | 90<br>90<br>90<br>90<br>100<br>-           | Sycamore<br>Cottonwood<br>Slash pine  |

TABLE 3. SOIL GROUPINGS ACCORDING TO WOODLAND SUITABILITY      Page 3 of 4  
 Coastal Plain and Associated Areas of Georgia, North Carolina and South Carolina

| Woodland Suitability Group<br>(Symbol and Description)  | Soils   | Productivity                                  |                   | Species<br>Suitable<br>for Planting |
|---|---|---|-------------------|-------------------------------------|
|   |   | Tree Species                                  | Site<br>Class     |                                     |
| (1)   | (2)   | (3)   | (4)               | (5)                                 |
| <u>3o1</u> Soils with moderately high productivity; no serious management problem; best suited for needleleaf trees.  | Charleston, 0-5% slopes<br>Esto, 2-15% slopes<br>Faceville, 2-25% slopes<br>Gilead, 2-15% slopes<br>Greenville, 0-15% slopes<br>Henderson, 2-15% slopes<br>Magnolia, 0-25% slopes<br>Marlboro, 0-15% slopes<br>Onslow, 0-5% slopes<br>Shubuta, 1-25% slopes<br>Varina, 0-10% slopes<br>Vaucluse, 2-25% slopes             | Loblolly pine<br>Slash pine<br>Longleaf pine  | 80<br>80<br>60-70 | Loblolly pine<br>Slash pine         |
| <u>3c2</u> Clayey soils with moderately high productivity; moderate equipment limitations and seedling mortality; best suited for needleleaf trees.                                       | Boswell, 1-15% slopes<br>Cuthbert, 2-15% slopes<br>Faceville, eroded, 5-25% slopes<br>Greenville, eroded, 5-15% slopes<br>Magnolia, eroded, 5-25% slopes<br>Marlboro, eroded, 5-15% slopes<br>Shubuta, eroded, 5-25% slopes<br>Sunsweet, 0-15% slopes<br>Susquehanna, 1-25% slopes  | Loblolly pine<br>Slash pine<br>Longleaf pine  | 80<br>80<br>60-70 | Loblolly pine                       |
| <u>3c8</u> Clayey soils with moderately high productivity; moderate equipment restrictions and seedling mortality; suitable for broadleaf and/or needleleaf trees.                        | Oktibbeha, 2-10% slopes   | Loblolly pine<br>Redcedar<br>Southern red oak | 80<br>40<br>70    | Redcedar<br>Loblolly pine           |
| <u>3s2</u> Sandy soils with moderately high productivity; moderate equipment restrictions and seedling mortality; best suited for needleleaf trees.                                       | Alaga, 1-25% slopes<br>Americus, 1-25% slopes<br>Blanton, 1-10% slopes<br>Eustis, 2-25% slopes<br>Fuquay, 2-25% slopes<br>Kenansville, 0-5% slopes<br>Lucy, 1-25% slopes<br>Pocalla, 0-15% slopes<br>Stilson, 0-5% slopes<br>Troup, 1-25% slopes<br>Wagram, 1-15% slopes<br>Wando, 0-5% slopes<br>Wicksburg, 0-10% slopes | Slash pine<br>Loblolly pine<br>Longleaf pine  | 80<br>80<br>60-70 | Slash pine<br>Longleaf pine         |
| <u>3w2</u> Seasonally wet soils with moderately high potential productivity; moderate equipment restrictions and slight to moderate seedling mortality; best suited for needleleaf trees. | Abany, 0-5% slopes<br>Barth, 0-5% slopes<br>Craven, 0-15% slopes<br>Kiawah, 0-5% slopes<br>Leefield, 0-5% slopes<br>Mascotte, 0-2% slopes<br>Ocilla, 0-5% slopes<br>Olustee, 0-2% slopes<br>Pactolus, 0-5% slopes<br>Scranton, 0-2% slopes<br>Seewee, 0-2% slopes   | Loblolly pine<br>Slash pine<br>Longleaf pine  | 80<br>80<br>70    | Slash pine<br>Loblolly pine         |

TABLE 3. SOIL GROUPINGS ACCORDING TO WOODLAND SUITABILITY  
Coastal Plain and Associated Areas of Georgia, North Carolina and South Carolina

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| Woodland Suitability Group<br>(Symbol and Description)  | Soils  | Productivity   |                                 | Species<br>Suitable<br>for Planting  |
|---|--|--|---------------------------------|--|
|   |  | Tree Species   | Site<br>Class                   |  |
| (1)   | (2)  | (3)  | (4)                             | (5)  |
| 3w3 Excessively wet soils with moderately high potential productivity; severe equipment restrictions and seedling mortality without adequate surface drainage; best suited for needleleaf trees.                            | Osier, 0-2% slopes   | Loblolly pine 1/<br>Slash pine 1/<br>Longleaf pine 1/  | 80<br>80<br>70                  | Slash pine 2/<br>Loblolly pine 2/  |
| 3w9 Excessively wet soils with moderately high potential productivity; severe equipment restrictions and seedling mortality except on areas with adequate surface drainage; suitable for needleleaf and/or broadleaf trees. | Atmore, 0-2% slopes<br>Pansey, 0-2% slopes   | Slash pine 1/<br>Loblolly pine 1/<br>Longleaf pine 1/<br>Sweetgum 1/<br>Water oak<br>Green ash | 80<br>80<br>70<br>80<br>80<br>- | Loblolly pine 2/<br>Slash pine 2/<br>Sycamore 2/<br>Nuttall oak 2/<br>Shumard oak 2/ |
| 4o1 Soils with moderate productivity and no serious management problems; best suited for needleleaf trees.  | Hoffman, 1-15% slopes  | Longleaf pine<br>Loblolly pine   | 60<br>60-70                     | Slash pine<br>Longleaf pine  |
| 4s2 Sandy soils with moderate productivity; moderate equipment restrictions and seedling mortality; best suited for needleleaf trees.   | Blaney, 1-15% slopes<br>Lakeland, 1-25% slopes   | Slash pine<br>Loblolly pine<br>Longleaf pine   | 70<br>70<br>60                  | Longleaf pine<br>Sand pine<br>Slash pine   |
| 4w2 Seasonally wet soils with moderate productivity, moderate seedling mortality and equipment restrictions; best suited for needleleaf trees.  | Leon, 0-5% slopes  | Slash pine<br>Loblolly pine<br>Longleaf pine   | 70<br>70<br>60                  | Slash pine<br>Loblolly pine  |
| 4w3 Excessively wet soils with moderate productivity; severe equipment restrictions and seedling mortality; suitable for needleleaf trees.  | Dorovan, 0-2% slopes<br>Lynn Haven, 0-2% slopes<br>Pamlico, 0-2% slopes<br>Ponzer, 0-2% slopes | Slash pine 1/<br>Loblolly pine 1/<br>Tupelos<br>Magnolias                                      | 70<br>70<br>-<br>-              | Slash pine 2/<br>Loblolly pine 2/  |
| 5s3 Sandy soils with low productivity; severe seedling mortality and moderate equipment restrictions; best suited for needleleaf trees.   | Kershaw, 2-25% slopes<br>Rimini, 0-5% slopes   | Longleaf pine<br>Slash pine  | 50<br>60                        | Longleaf pine<br>Sand pine<br>Slash pine   |



